

THE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME: Harris Moran Seed Company

ALCONS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR STINGIT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Navarro'

In Vestimony Pherest, I have hereunto set my hand and caused the seal of the Plant Pariety Frotestion Office to be affixed at the City of Washington, D.C. this third day of Way, in the year two thousand and seven.

Allost:

Denzen

Commissioner Plant Variety Protection Office Agricultural Marketina Service Johann

| REPRODUCE LOCALLY, Include form number and chile on all reproductions Form Approved - CMB No. 0581-0055 | | | | | | |
|--|---|--|--|---|---|--|
| U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCHEME AND TECHNOLOGY - PLANT VARGETY PROTECTION OFFICE | | | The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. | | | |
| APPLICATION FOR PLANT VARIÉTY PROTECTION CERTIFICATE (Includions and information collection butten stelement on reverse) | | | Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2429). | | | |
| 1. NAME OF OWNER | | | 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME | 3. V/ | VOIETY NAME | |
| Harris Moran Seed Company | | | FM 184 | Navano | | |
| 4. ADDRESS (Street and No., or R.F.D. No., City, | State, and ZIP Co. | de, and Country) | 5. TELEPHONE (include area code) | THORE (include area code) FOR OFFICIAL USE CIRLY | | |
| 555 Codoni Ave | | | (209) 579-7333 | (209) 579-7333 PVPO #RMBER | | |
| Modesto, CA 95357 USA | | | 6. FAX (include area code) | FAX (include since code) 200400122 | | |
| | | | (209) 527-8754 | 200400122 | | |
| 7. IF THE OWNER NAMED IS NOT A "PERSON", ORGANIZATION (corporation, partnership, asso | GIVE FORM OF | 8. IF INCORPORATED, GIVE STATE OF INCORPORATION | 9. DATE OF INCORPORATION | "- | 1 / | |
| corporation | · | CA | 4-7-1969 | l . | 2/26/2004 | |
| 10. NAME AND ADDRESS OF OWNER REPRESS | NIATIVE(S) TO | I SERVE IN THIS APPLICATION. (First) | porson Ested will receive all papers) | - | FILING AND EXAMINATION FEES: | |
| John Schoenecker | | | - | E E 8 | \$ 3652.00 | |
| P.O. Box 4938 | | | • | ů | DATE 2/24/2004 | |
| Modesto, CA 95352-4938 | | | | E E | CERTIFICATION FEE | |
| | | | | Ę | • 768.℃ | |
| | | | ٠, ٠ | 3 | DATE 4/17/7007 | |
| 11. TELEPHONE (Include area code) | 12. FAX (Includ | le area code) | 13. E-MAIL | - | | |
| (209) 549-5203 | (209) 548 | S-9975 | j.schoenecker@barrismor | j.schoenecker@harrismoran.com | | |
| 14. CROP (GND (Common Name) | 16. FAMILY N | NAE (Botanical) | 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) | | | |
| Garden Bean | Leguminosa | | ☐ YES ☑ ND | | | |
| 15. GENUS AND SPECIES NAME OF CROP | · · | METY A PIRST GENERATION HYBRI | F SC, PLEASE GIVE THE ASSIGNED USDA APPRIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR | | | |
| Phaseolus vulgaris | YES | _ | COMMERICALIZATION. | | | |
| 18. CHECK APPROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) | ACHMENT SUBM | ਜ਼ਿਲ) | 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83/a) of the Plant Variety Protection Act) | | | |
| 2. Exhibit A. Origin and Breeding History | of the Variety | | YES (If Yes", answer items 21 and 22 below) I NO (If 'no", go to item 23) | | | |
| h. Exhibit B. Statement of Distinctness | | | 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? | | | |
| c. Z Edibit C. Objective Description of Var | iety | | ☐ YES ☐ NO | | | |
| d. 🔲 Exhibit D. Additional Description of the | Vaciety (Optional) | | IF YES, WHICH CLASSES? [] FOUNDATION [] REGISTERED [] CERTIFIED | | | |
| e. 📝 Edibil E. Statement of the Basis of th | e Owner's Owners | tiip | 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO MUMBER OF GENERATIONS? | | | |
| Voucher Sample (2,500 viable unbeate verification that fissue culture will be do repository) | d seeds or, for bib specified and main | er propagated variaties, tained in an approved public | ☐ YES ☐ NO | | | |
| g. Filing and Examination Fee (\$3,652), or | uade payable to "Ti | reasurer of the United | IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. | | | |
| States* (Mail to the Plant Variety Protect | * | | | | | |
| 23. HAS THE VARIETY (INCLUDING ANY HARVISTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? | | | | 24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDERS RIGHT OR PATENT)? | | |
| ☑ YES ☐ NO | | | ☐ YES ☑ NO | ☐ YES ☑ NO | | |
| IF YES, YOU MUST PROVIDE THE DATE OF PIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use grace indicated on reverse.) | | | IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.) | | | |
| 25. The owners deciare that a viable sample of basic elect of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. | | | | | | |
| | | | | tions and | form, and stable as required in Section 42, and is | |
| entitled to protection under the provisions of Ser Owner(s) is (sre) informed that false represents | 2000 42 OF UNE PRO | ik Variety Protection Act. | - | mon one | want and second do tachings to covern 44' at st. to | |
| \$KANTURE OP OWNER | | · · · · · · · · · · · · · · · · · · · | RGNATURE OF OWNER | | | |
| Am Loencall | | | | | · | |
| hn Shoenecker t | bransedCa | IAME (Please print or type) | | | | |
| IV of Legal & Regulate | 124/04 | APACITY OR TITLE | DATE | | | |
| 1 1 0 | 1 | | | I | | |

200400122

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22, CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

 March 2003
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whilten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Variety: Navarro

Exhibit A: Origin and Breeding History

The original cross 1C-X3374 was made in the greenhouse at San Juan Bautista, CA in the Fall of 1990. The parents were F_5 selections from a cross 1C-X2490 between Boyo and Primo (FM 168). The female of 1C-X3374 was 1C-X2490-MsMs(W)A(C)4 and the male was 1C-X2490-MsMs(W)W(C)1.

The F₁ seed was planted in the greenhouse in San Juan Bautista in the Spring of 1991. The seed was harvested bulked and given the designation 1C-X3374-Ms.

Fifty of the F₂ seed were planted in the field at Sun Prairie, WI in the Summer of 1991. Three plants were selected for high yield, slightly darker pod color, and the most upright plant habit. The seed was bulked and designated 1C-X3374-Ms(W)Ms.

Fifty of the F₃ seeds were planted in the field at San Juan Bautista in the Summer of 1992. Six single plant selections were made with high yield, slightly darker pod color, and the most upright plant habit. The six selections were designated 1C-X3374-Ms(W)Ms(C)A to F.

Progeny rows of the F₄ seeds were planted in the field at Sun Prairie in the Summer of 1993. The fifth row was selected as the best progeny row based on yield and pod color. The seed from the row was bulked and designated 1C-X3374-Ms(W)Ms(C)E(W)Ms.

Twenty of the F₅ seeds were planted in the greenhouse at San Juan Bautista in the Fall of 1993. The plants were inoculated with Bean Common Mosaic Virus. Six plants were saved, the seed was bulked and designated 1C-X3374-Ms(W)Ms(C)E(W)Ms(MT)Ms.

The F6 seed was planted in the field at San Juan Bautista in the Summer of 1994. The seed was bulked and designated 1C-X3374-Ms(W)Ms(C)E(W)Ms(MT)Ms(C)Ms.

The F₇ seed was evaluated in 2 yield trials at Sun Prairie in the Summer of 1995. The line was rated high for yield and darker pod color than Primo. It was decided to advance the line. F₇ seed was also planted in the field at San Juan Bautisa. The seed from San Juan Bautista was bulked and designated **FM 184**.

FM 184 was planted in replicated yield trials at Sun Prairie, WI in the Summer of 1996. It rated higher for yield and pod color compared to Roma II and Primo. Four plants with the highest yield were saved from row number W64678. The plants were designated FM 184 A to D.

Thirty seed from each plant were planted in the greenhouse in Sun Prairie in the Spring of 2000. The seed from each plant was kept separate. Thirty plants were harvested from FM 184 A and designated FM 184 A1 to 30, twenty seven plants were harvested from FM 184 B and designated FM 184 B1 to 27, twenty plants were harvested from FM 184 C

and designated FM 184 C1 to 20, and twenty nine plants were harvested from FM 184 D and designated FM 184 D1 to 29.

Fifty seed of each of the 97 plants were planted in progeny rows at San Juan Bautista in the Summer of 2000. The rows were evaluated for uniformity and off-types. All rows were uniform and no off-types or variants were found. The seed was bulked and designated FM 184 C94410+.

One acre of the seed was planted in Twin Falls, ID in the summer of 2001. The field was rouged, no off-types or variants were found. The seed was harvested as a bulk. Ten acres of seed was planted in Twin Falls in the summer of 1992. Zero off-types and variants were found in 1200 plants. The seed was harvested and the variety was named **Navarro**.

Navarro has been observed for 3 generations of seed increase. Navarro is stable and uniform. No variants were observed.

The parentage of Boyo', traceable to public Varieties, is UNKnown. (Perletter of March 15, 2007) man 3/26/2007

Variety: Navarro

Exhibit B
Statement of Distinctness

Navarro is most similar to the variety Primo; however, Navarro has the CO-1 gene conferring resistance to *Colletotrichum lindemuthianum* race 73 (Anthracnose), whereas Primo lacks the gene and is susceptible.

The resistance has been confirmed in pathology tests conducted in Davis, Ca and Sun Prairie, WI. The tests were conducted in January 2004.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

GARDEN BEAN (Phaseolus vulgaris L.)

| NAME OF APPLICANT(S) | |
|---|--|
| Harris Moran | FOR OFFICIAL USE ONLY |
| ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) | PVPO NUMBER ZUU4 U 0 122 |
| | VARIETY NAME |
| | Navarro |
| , | TEMPORARY OR EXPERIMENTAL DESIGNATION FM 184 |
| and the given. Royal reor including a Society or any recognized color standard may be used to de- | |
| | y program application. |
| 1 = Garden 2=Snap 3 = Flageolet 4 MARKET MATURITY: | S = Romano |
| Days to edible pods | Comparison varieties |
| Heat units to edible pods | ercrop' 2='Kentucky Wonder' |
| Number of days earlier than 3='Goldr | rush' 4='Slenderette' |
| Same number of days as \$\frac{\text{\$\sigma}}{\text{\$\sigma}}\$ | a' 6='Provider' |
| Number of days later than 7='Bush I PLANT: | Blue Lake 290° 8=Other (specify below) |
| O 8 cm Spacing between plants in a row | |
| | |
| Habit I=Determinate 2=Indeterminate, erect stem and bro | |
| 3=indeterminate with weak and no | offrata etam 1 1 |
| 040 cm Height 4=Indeterminate climbing habit with | h weak, long and twisted stem and branches |
| cm Shorter than | |
| Same height as | |
| Cm Taller than 3 Use Compa | rison Varieties from Section 2. |
| CM Narrowen than | |
| Same width as 8 | e all 3 comparisons for Spread. |
| cm Wider than 3 | 6 |

| 3. PLANT: | : (continued) | | | Extitolic (Garden Bean) |
|---------------|--|--|---|-------------------------|
| 3 | Pod position | n 1=Low 2=High | 3=Scattered | 200400122 |
| 3 | Bush form | (illustrated below) | | |
| | | | | |
| 1=0 | pherical bush form | 2=Stem bush form | 3=Wide bush form | 4=High bush form |
| | 5=0 | ther (SPECIFY) | | |
| 4. LEAVES: | | **** | | |
| | Surface: | 1=Duli 2=Glossy | 3=Intermediate | |
| 2 | Size: | 1=Small ('Gitana') | 2=Medium 3=Large ('Ter | ndercrop') |
| 2 | Color: | 1=Light green (as ligh 2=Medium green | t or lighter than 'Goldrush') | |
| · · · | | | or darker than 'Bush Blue Lake | 290') |
| 5. ANTHOCY | ANIN PIGMENT: | 1=Absent 2=Prese | ent | |
| | Flowers | Stems | Pods | Seeds |
| | Leaves | Petioles | Peduncles | Nodes |
| 6. FLOWER C | COLOR AND DAYS TO | BLOOM: | | |
| | Color of standard | Flower Color C | lhoices | |
| | Color of wings | l=White | 2=Cream | |
| | Color of Keel | 3=Pink 5=Purple | 4=Lilac 6=Blue | |
| | Days to 50% bloom | 7=Other (SPE) | TFY) | |
| - PODS (edibl | e maturity): | | | |
| 2 | Exterior color (fresh) | | or lighter than 'Provider') um green | |
| | | 3=Dark green (as dark of 4=Yellow ('Goldrush') | or darker than 'Bush Blue Lake 2 | 90') |
| | e de la companya de l | 5=Green-red variegated 6=Other (SPECIFY) | (horticultural) | |
| ' | Processed pods (exterio | r color) 1=Light | ('Tendercrop') 2=Dark ('B | lush Blue Lake 290') |
| l I | Ory pod color | 1=Buckskin ('Sprite') | 2=Green, persistent chlorophy | il ('Hystyle') |

| 7. P | ÓDS. (e | dible maturit | ty): (continued) | | | · | Exhibit | C (Garden Bean) Page 3 |
|------|---------|---------------|-----------------------|---------------------------|-------------------------------------|-------------------------|--|--|
| ٠ | П | Cross s | ection pod shape | l=Flat | 2 77 | | 2004 (| |
| | ш | | dle of the pod) | 1−riat | 2=Heart (Pear) | 3=Round | 4= Figure ei | ght |
| | | •. | · | y | D | 100 | 99 | |
| | 2 | Creaseb | ack I=Pre | sent 2=A | bsent | | • | |
| | 3 | Pubesce | nce 1=Non | e ('Slenderett | te') 2=Sparse | 3=Consideral | ble ('Provider' or | "Sprite") |
| | 2 | · | tion (Interlocular ca | vitation) | 1=None 2 | =Slight 3=[| eęp | |
| | 113 | mm Spu | r length | | | | | • |
| | 2 | Fiber | 1=None ('Bush | Blue Lake 29 | 0') 2=Sparse | 3=Considera | ble ('Sprite') | |
| 1. | 6 | Number | of seeds per pod | | | | · | |
| | 2 | Suture st | ring 1=Prese | ent 2=Ab | sent | | | |
| | 2 | Seed deve | elopment 1=Slow | (Bush Blue I | ake 290') 2=M | ledium 3=F | ast ('Provider') | |
| | | Machine l | harvest l=Adap | ted 2=No | ot adapted | | | |
| | | | Percent sieve - | 31.2.9 | | | | |
| | 4.76 t | o 5.76mm | 5.76 to 7.34mm | | t optimum maturity | | | - |
| | | | 3.70 to 7.34mm | 7.34 to 8.34 | mm 8.34 to 9.4 | 53mm 9.53 t | o 10.72mm | ≥ 10.72mm |
| | | % | % | | % 40 | % | 00 % | % |
| , | Sieve | | | | | | | - |
| 1. " | | | cm length | | mm width | | total mm thick | oess |
| | Sieve | | cm length | | mm width | 09 | total mm thick | aess |
| | Sieve | | 5 cm length | | mm width | 10 | total mm thicks | 1 č 55 |
| | Sieve | | cm length | | mm width | | total mm thickr | iess : |
| SEED | COLOR | • | | | | | <u> </u> | |
| [3 | 3] | Seedcoat lus | ter 1=Shiny | 2=Duli | 3=Semishiny | 4=Variable | | |
| | | Seedcoat | l=Monocl | rome 2= | Polychrome | | | |
| 0 | | Primary colo | | -White 2=Y 10=Black 11 | ellow 3=Buff 4= =Other (SPECIFY) | =Tan 5=Brown) | n 6=Pin k 7=R | ed 8=Purple |
| | | Secondary co | | 2=Yellow 3 0=Black 11 | i=Buff 4=Tan 5 =Other (SPECIFY) | =Brown 6=Pin | nk 7=Red 8=I | 'urple |
| |] s | Seedcoat patr | tern 1=Solid 2 | l=Splashed | 3=Mottled 4=Stri | ped 5=Flecked | f 6=Dotted | man in the second of the secon |
| | I I | lilar ring | l=Absent | 2=Present | | - A ndrong (| The St. Communication of the St. Communication | ing a second of the second of |
| | H | lilar Ring C | | 2=Yellow 3 9=Black 11= | =Buff 4=Tan 5= =Other (SPECIFY). | Brown 6=Pin | k 7=Red 8=P | ürple |
| | | • | | | | | | |

| 9. SEED SHAPE AND SIZE: | Exhibit C (Garden Bean) |
|--|---|
| Z Hilum view | 200400122 |
| 1=Elliptical | 2=Oval 3=Round |
| Cross section 1=Elliptical | 2=Oval 3=Cordate 4=Round |
| Side view | |
| I=Oval to Oblo | ing 2=Round 3=Reniform |
| 3 9 gm/100 Seed | en e |
| gm/100 Seed lighter than | Use Comparison Varieties from Section 2. |
| gm/100 Seed heavier than | Please make all 3 comparisons. |
| 10. DISEASE RESISTANCE: 0 = Not Tested I PLEASE SPECIFY RA | = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant ACE OR STRAIN WHERE APPROPRIATE |
| Anthracnose (Colletotrichum linder | nuthianum) |
| Race Alpha | Race Beta Race Gamma |
| Race Delta Race Kappa | Race Epsilon Race Lambda Specify race 73 |
| Bean Rust (Uromyces appendiculate | |
| Race 38 Race 39 | O Race 44 |
| Race 45 Race 46 | O Race Su |
| Race 51 Race 52 Race 59 Specify | 17.2 O Raice 50 |
| Powdery Mildew (Erysiphe polygoni) | |
| Tusarium Root Rot (Fusarium solani | L sp. phaseoli) |
| Pythium Root Rot (Pythium spp.) | |
| Aphanomyces Root Rot (Aphanomyce | es euteiches) |
| | lani) |
| Pythium Blight or Aerial Pythium (P) | thium ultimum) |
| Angular Leaf Spot (Isariopsis griseola | |
| Bacterial Wilt (Corynebacterium flace) | umlaciens suben december de |

| 0. DISEASE RESISTANCE: (continued) | Exhibit C (Garden Bean) Page 5 |
|---|---|
| Bacterial Brown Spot (Pseudomonas syringae pv. syringae) | 200400122 |
| Common Bacterial Blight (Xanthomonas campestris pv. phaseoli) | |
| Halo blight (Pseudomanas syringae pv. phaseolicola) | |
| Race 1 Race 2 Other (SPEC) | (FY) |
| Clover Yellow Vein Virus (CYVV) | |
| Bean Common Mosaic Virus (BCMV) | |
| Z BV1 Z NY15 O NL2 | NL3 |
| O NL4 O NL8 O Florida | O Idaho |
| Mexican Western Type | |
| Other (SPECIFY) | |
| Yellow Bean Mosaic Virus (BYMV) | |
| Curly Top Virus (BCTV) | |
| Other (Specify Disease and Race or Strain) | |
| INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Int | termediate 4 = Tolerant |
| O Aphid Root Knot Nematode | e de |
| D Leafhopper Seed Corn Maggot | |
| O Lygus O Thrips | |
| O Pod Borer Weevils | |
| Other (SPECIFY) | |
| PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant | 3 = Intermediate 4 = |
| | |
| O Heat O Cold Drought | |
| O Air Pollution Ozone | $\frac{\epsilon}{\sqrt{\epsilon}} = \frac{\epsilon}{\sqrt{\epsilon}} = \epsilon$ |
| Other (SPECIFY) | • |
| OMMENTS- | |

| REPRODUCE LOCALLY. Include form number and edition date on all | reproductions. | ORM APPROVED - OMB No. 0581-0055 |
|--|---|---|
| U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP | Application is required in order to detect certificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued. | 21). The information is held |
| 1. NAME OF APPLICANT(S) | 2. TEMPORARY DESIGNATION | 3. VARIETY NAME |
| Hamis Maron Sand Consumer | OR EXPERIMENTAL NUMBER | |
| Harris Moran Seed Company | FM 184 | Navarro |
| 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) | 5. TELEPHONE (Include area code) | 6. FAX (Include area code) |
| 555 Codoni Ave | (209) 579-7333 | (209) 527-5312 |
| Modesto, CA 95357 USA | 7. PVPO NUMBER | |
| | 2004 | 00122 |
| 8. Does the applicant own all rights to the variety? Mark an "X" in the | e appropriate block. If no, please explai | in. YES NO |
| 9. Is the applicant (individual or company) a U.S. national or a U.S. b | ased company? If no, give name of co | ountry. YES NO |
| 10. Is the applicant the original owner? | NO If no, please answer one | of the following: |
| a. If the original rights to variety were owned by individual(s), is (| are) the original owner(s) a U.S. Nations NO If no, give name of count | |
| b. If the original rights to variety were owned by a company(ies), | is (are) the original owner(s) a U.S. bas | |
| 11. Additional explanation on ownership (Trace ownership from origin | nal breeder to current owner. Use the re | everse for extra space if needed): |
| PLEASE NOTE: | | |
| Plant variety protection can only be afforded to the owners (not licens | ees) who meet the following criteria: | |
| If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of a country which affords similar protection. | | |
| If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a o genus and species. | | |
| 3. If the applicant is an owner who is not the original owner, both the | original owner and the applicant must m | eet one of the above criteria. |
| The original breeder/owner may be the individual or company who direct for definitions. | ected the final breeding. See Section 4 | 1(a)(2) of the Plant Variety Protection |
| According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering a | The time required to complete this information collect | tion is estimated to average 0.1 hour per response, |

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.